

ABSTRACT

SUB
A1

Molded articles or substrates having an in-mold coating thereon are disclosed. The in-mold coated substrates are produced by a method wherein the flow of the in-mold composition onto the substrate can be selectively controlled. The molded articles can be preferentially coated in desired or predetermined areas with in-mold coating compositions by controlling the thickness or depth of various sections of the substrate.

In a further embodiment, a molded article or substrate is provided with an in-mold coating containment flange to substantially contain the in-mold coating within the mold cavity and on the desired area of a part before the coating has been cured.

In yet another embodiment of the present invention, a molded article or substrate is provided with at least runner section or preferred flow channel to promote in-mold coating flow over the surface of a substrate.

A further embodiment of the present invention provides a molded article with an area of increased relative thickness at the location of in-mold coating injection to encourage or promote in-mold coating flow.